

U.S. Patent Appln. No. 09/978,345
Proposed Claims

Docket No. 9500-1

Proposed Amendments to Claims

1. (Currently Amended) A method for non-invasively measuring arterial blood pressure at a human wrist of a patient, said method comprising the steps of:

- a) keeping a wrist of a patient at a posture which can lower a position of at least one tendon of the wrist near to a radial artery to be measured, and cause the radial artery to be close to a radius of the wrist, so that an external pressure can be accurately transmitted to said radial artery;
- b) applying a changing external pressure to the skin above the radial artery;
- c) detecting a pulse wave signal of the radial artery along with a change in said external pressure;
- d) measuring blood pressure of the radial artery by measuring said external pressure applied to the radial artery when said pulse wave signal changes.

17. (Currently Amended) A non-invasive apparatus for measuring arterial blood pressure at a human wrist comprise:

- a) a wrist holding device for keeping a patient's wrist at a posture which can lower a position of at least one tendon of the wrist near to a radial artery to be measured, and cause the radial artery to be close to a radius of the wrist, so that an external pressure can be accurately transmitted to said radial artery;
- b) a pressure bladder for applying an external pressure to the radial artery, and a pressure bladder holding device for stably positioning said pressure bladder on the skin above the radial artery;
- c) a pulse transducer for detecting a pulse wave signal of the radial artery; and
- d) a pressure feeding-measuring system connected to said pressure bladder and said pulse transducer; said pressure feeding-measuring system including a pressure feeding device for feeding pressure to said pressure bladder, and a signal processing device for processing the detected pulse wave signal of the radial artery and controlling said pressure feeding device, so as to measure blood pressure of the radial artery by measuring said external pressure applied to the radial artery when the detected pulse wave signal of the radial artery changes.

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If the Examiner needs anything further prior to the telephonic interview on April 20, 2004, Counsel for Applicant can be reached at the telephone number below or by facsimile at 561-659-6313.

Respectfully submitted,

AKERMAN SENTERFITT

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